Iowa Department of Natural Resources
Wastewater Section
Construction Permit Application
SCHEDULE K3, Anaerobic Lagoon

DATE PREPARED	PROJECT IDENTITY	DNR USE
		PROJECT NO.
DATE REVISED		PERMIT NO.

1. Design Basis:

	AWW	MWW	PHWW
Flow, MGD			
BOD_5, #/day			
TSS, #/day			
Kjeldahl Nitrogen, #/day			
Sulfate, mg/l			
Design temperature, ____ ° F			

2. No. of soil borings taken _____ Data included in the _____
   High groundwater elevation (MSL) _____

3. Top of dike elevation (MSL) _____ ft 100 year flood elevation (MSL) _____ ft

4.

Lagoon Data	Cell No 1	Cell No. 2	Total
Surface area @ maximum depth (A)			
Loading (#BOD_5/1000 cu ft)			
Retention time (days)			
Effective volume (MG)			
Depth (ft)			
Surface width (ft)			
Surface length (ft)			
Freeboard @ maximum depth (ft)			
Top width of dike (ft)			
Inner Embankment Slope H/V			
Outer Embankment Slope H/V			

5. Method of raw flow diversion to cells _____
   Are the locations of piping and structures given on Schedule H1? Yes ☐ No ☐
6. Series or parallel operation? _____
7. Method of interconnecting cells _____
8. Describe inlet piping and location _____
9. Describe outlet piping and location _____
10. Method of sampling _____
11. Type of flow measurement _____ Location _____
12. Method of establishing and maintaining a scum cover _____
13. Method of removing accumulated sludge _____
14. Fence Height _____ No. strands barbed wire: Top _____ Bottom _____
15. Number of warning signs _____ Location _____
16. Maximum allowable leakage rate _____ in/day
    Method of testing leakage rate _____
17. Are specifications included for:
    a. Seeding Yes ☐ No ☐
    b. Soil sterilization Yes ☐ No ☐
    c. Pond bottom uniformity Yes ☐ No ☐
    d. Pond sealing Yes ☐ No ☐
    e. Erosion protection Yes ☐ No ☐
18. Is service bypass provided? _____ Discharge to _____